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Appendix E

Statistical Analysis of VOCs in the Environment (SAVE) Relational Data Base Elements

Table E-1. SAVE Database element fields: Measured, Derived, and Interpreted

Table Related Table	Parameter	Description	Domain	Format	Origin	
SiteInfo	SEQNO	Sequence number		nnnnnnnn	Assigned	
	SITENAME	Site name		text	Measured	
	STREETNO	Street number			Measured	
	STREET	Street name		text	Measured	
	XSTREET	Cross street		text	Measured	
	CITY	City		text	Measured	
	COUNTY_LIST	County	CA/OR counties 1-99	nn	Measured	
	STATE_LIST	State		nn	Measured	
State_List		State Census # 1-99				
	ZIP	Zip code			Measured	
	LAT	Latitude			Measured	
	LON	Longitude			Measured	
	DNAPL	Are DNAPLS present	t (y/n)	y/n	Measured	
	LNAPL	* * * * * * * * * * * * * * * * * * * *		y/n	Measured	
	AV_PRECIP(INCHES/YEAR)	Average precipitation		nnnn.nn	Measured	
	AV_WIND_SPEED(MPH)	Average wind speed		nnnn.nn	Measured	
	AV_TEMP(DEGREES_F)			nnn.nn	Measured	
	AV_HUMIDITY(%)	Z ,		nn.nn	Measured	
	AV_EVAPOTRNS(INCHES/YR	Average evapotranspi	iration	nnnn.nn	Measured	
	DISCOVERY_DATE	Contamination discov	ery date	m/d/y	Measured	
	GEOLOGIC_SETTING_LIST	Geologic region 1-15		nn	Measured	
Geo_Setting_List		Freeze and Cherry's USGS Geologic Regions				
BoreInfo	SEQNO	Sequence number		nnnnnnnn	Assigned	
	BORENAME	Bore name		text	Records	
	BOREDATE	Completion date		m/d/y	Measured	
	X(EASTING)	Easting (feet) state pla	ane or local coords.	nnnnnnn.nn	Measured	
	Y(NORTHING)	Northing(feet) state plane or local coords.		nnnnnnn.nn	Measured	
	POINT_OF_MEASUREMENT	Datum (e.g. surface, casing top)		text	Observed	
	ELEVATION_AT_POM(FEET)	Elevation		nnnn.nn	Measured	
	DEPTH(FEET)	Depth lowest point in	well	nnnnn.nn	Measured	
	DEPTH_1ST_WATER(FEET)	Depth of first water		nnnn.nn	Measured	
	BORE_TYPE_LIST	Bore type classification	on	letter	A-H	
Bore_Type_List		Bore type letters				
	IN_PLUME?	Is the well screened in	n the plume?	y/n		

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Table E-1. SAVE Database element fields: Measured, Derived, and Interpreted

Table Related Table	Parameter	Description	Domain	Format	Origin
ChemSample	SEQNO	Sequence number		nnnnnnnn	Assigned
	BORENAME	Bore name		text	Measured
	DATE	Date		m/d/y	Measured
	MATRIX	Matrix (e.g. SOIL, W	ATER, VAPOR)	text	Measured
	CHEM_NUMBER	Chemical number		nnnnnnnn	See List
	ANALYTE_NAME	(e.g. TPH, TotalVOC	cs,eH,pH)	text	Measured
	QUALIFIER	Letter/symbol for acc	ruracy	text	Measured
	CONCENTRATION	Concentration		text/nnnnn.n	Measured
	DETECTION_LIMIT	Detection limit		nnnn.nn	Measured
	DILUTION_FACTOR	Dilution factor		nnnn.nn	Measured
	UNITS	Units		text	Measured
	ANALYTICAL_METHOD	Analytical method		text	Measured
Chem_List	CHEMICAL	Analyte name		text	Assigned
_	CHEM_NUMBER	Chemical number		nnnnnnnn	Assigned
	CAS_NUMBER	CAS number		nnnnnnnn	Assigned
	ALIAS	Abbreviation of chem	n name	text	Assigned
WaterLevel	SEQNO	Sequence number		nnnnnnnn	Assigned
	BORENAME	Bore name		text	Measured
	DATE	Date		m/d/y	Measured
	DEPTH_TO_GW(FEET)	Ground water depth		nnnnn.nn	Measured
	POINT_OF_MEASUREMENT	Datum (e.g. surface, o	casing top)	text	Observed
	GW_ELEV.(FEET_AMSL)			nnnnn.nn	Measured
	VADOSE_ZONE_THICK(FEET Thickness of vadose zone at well				
AquiferTest	SEQNO	Sequence number		nnnnnnnn	Assigned
	SITE_AVG_K(FT/DAY)	Sitewide average hyd	raulic conductivity	nnnn.nn	Derived
	LO_K	Sitewide lowest K val	lue reported	nnnn.nn	Derived
	HI_K	Sitewide highest K va	alue reported	nnnn.nn	Derived
	GEOMEAN_K	Geometric mean of K	values at site	nnnn.nn	Derived
	STDEV_K	Standard deviation of	K values at site	nnnn.nn	Derived
	NUMBER_OF_K_VALUES Number of K values measured		measured	nnnn.nn	Derived
	GEOMEAN_TRANSMISSIVITY Geometric mean of T values at site			nnnn.nn	Derived
	STDEV_T	Standard deviation of	T values at site	nnnn.nn	Derived
	NUMBER_OF_T_VALUES	Number of T values r	neasured	nnnn.nn	Derived
	COMMENTS	Converting units and	other notes	nnnn.nn	Derived

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Table E-1. SAVE Database element fields: Measured, Derived, and Interpreted

Table Related Table	Parameter	Description	Domain	Format	Origin
Plume_Remediation	SEQNO	Sequence number		nnnnnnnn	Assigned
	PLUME_NUMBER	Plume number		nn	Assigned
	REMED_START_DATE	Remediation start date	e	m/d/y	Measured
	REMED_END_DATE	Remediation end date		m/d/y	Measured
	EST_MASS_REMOVED(G)	Estimated mass remov	ved	nnnnnnn.nn	Derived
	REMEDIATION_METHOD	Remediation method		letter	Measured
			A=Slurry wall/grout cu	ırtain	Measured
			B=In Situ bio-remedia	tion	Measured
			C=Soil/rock excavation	n	Measured
			D=Tank removal		Measured
			E=Air sparging		Measured
			F=Ground water extract		Measured
			G=Soil vapor extraction	n	Measured
			H=Cover/cap		Measured
			I=Other		Measured
Hydro_Desc	SEQNO	Sequence number		nnnnnnnn	Assigned
	EFFECTIVE_POROSITY(%)	Effective porosity (fra	action)	nnnn.nnnn	Interpreted
	AV_DEPTH_WATER_TABLE	Average dpeth to water	er table	nnnn.nnnn	Interpreted
	HYDRO_GRADIENT	Hyraulic gradient		nnnn.nnnn	Interpreted
	ORGANIC_CARBON_CONT.	Organic carbon conten	nt	nnnnn.nn	Interpreted
	RECHARGE_INFIL(FT/DAY)	Recharge infiltration		nnnnn.nn	Interpreted
	AV_AQUIFER_THICKNESS(F)	Average Aquifer thick	kness	nnnn.nn	Interpreted
Plume_Dat	SEQNO	Sequence number		nnnnnnnn	Interpreted
	PLUME_NUMBER	Plume number		nn	Assigned
	PLUME_CONTAMINANT	Plume contaminant al	ias name	text	Interpreted
	SOURCE_X(EASTING)	Source easting		nnnnnnn.nn	Interpreted
	SOURCE_Y(NORTHING)	Source northing		nnnnnnn.nn	Interpreted
	PLUME_DATE	Plume date		m/d/y	Interpreted
	PLUME_LENGTH(FEET)	Plume length		nnnn.nn	Interpreted
	PLUME_WIDTH(FEET)	Plume width		nnnn.nn	Interpreted
	IMPACTED_WTR_VOL(GAL)	Volume of impacted v	water	nnnnnnn.nn	Interpreted
	MAX_CONC(PPB)	Maximum concentration	ion	nnnn.nn	Measured
	MAX_CONC_X(EASTING)	X Coordinate of max	concentration	nnnnnnn.nn	Interpreted
	MAX_CONC_Y(NORTHING)	Y Coordinate of max	concentration	nnnnnnn.nn	Interpreted
	AV_CONCENTRATION(PPB)	Average concentration		nnnn.nn	Derived
	RETARDATION_COEFF	Retardation coeeficien		nnnn.nn	Derived
	PLUME_DAYLIGHT	Plume daylights (y/n)		y/n	Measured
	REMOVE_STAT_ANAL.	Yes or No flag for plu		y/n	Derived
	SUMP_IN_PLUME	Are sumps in use (y/n		y/n	Measured
	SIG_IMPACT_FROM_SUMP	Do these sumps impac	ct plume	y/n	Derived
	RELEASE_START_DATE	Release start date		m/d/y	Measured
	MATERIALS_RELEASED	List of chemicals spill	led	text	Measured
	MASS/VOL_RELEASED	Quantity of spill		text	Measured
	UNITS	Units used to measure	quantity	text	Measured
	RELEASE_END_DATE	Release end date		m/d/y	Measured

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Table E-1. SAVE Database element fields: Measured, Derived, and Interpreted

Table Related Table	Parameter	Description	Domain	Format	Origin
Super_Plume	SEQNO	Sequence number		nnnnnnnn	Assigned
	PLUME_NUMBER	Plume number		nn	Assigned
	GROWTH_RATE(FT3/YEAR)	Growth rate		nnnn.nn	Interpreted
	MEAN_GRAD_DIRECTION	Mean gradient direct	ion	text	Interpreted
	MEAN_GRAD_MAGNITUDE	Mean gradient magnitude		nnnn.nn	Interpreted
	MEAN_GRAD_STD	Mean grad. standard deviation		nnnn.nn	Interpreted
	MEAN_VERT_GRAD_MAG	Mean vertical grad. magnitude		nnnn.nn	Interpreted
	MAX_GRAD_DIRECTION	Maximum gradient d	irection	text	Measured
	MAX_GRAD_MAGNITUDE	Maximum gradient n	nagnitude	nnnn.nn	Measured
	MAX_GRAD_STD	Max grad. standard d	leviation	nnnn.nn	Measured
	MIN_GRAD_DIRECTION	Minimum gradient direction		text	Measured
	MIN_GRAD_MAGNITUDE	Minimum gradient magnitude		nnnn.nn	Measured
	MIN_GRAD_STD	Min grad. standard deviation		nnnn.nn	Measured
	MEAN_VELOCITY	Mean velocity		nnnn.nn	Interpreted
	MAX_VELOCITY	Maximum velocity		nnnn.nn	Measured
	MIN_VELOCITY	Minimum velocity		nnnn.nn	Measured
	MASS_CHANGE(G/YEAR)	Mass change Interpreted degradation rate		nnnn.nn	Interpreted
	INTERP_DEG_RATE			nnnn.nn	Interpreted
	DEGRATE_MTHD_LIST	Interp. deg. rate meth	nod	letter	Interpreted
			A=Interp. deg. rate me		Interpreted
		B=Lab microcosm study		dy	Interpreted
			C=Literature review		Interpreted
			D=Transportation mod		Interpreted
			E=Buscheck/Alcantar	•	Interpreted
			F=Recalcitrant tracer	•	Interpreted
			G=Parent/daughter pro	od. ratio anal.	Interpreted
			H=Chloride mass bala	nce	Interpreted

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